

Titrator Service

Service**XXL**

Tailored Services



Service Plans

Calibration

Certification

Qualification

Innovative Services
for Outstanding Titrator Performance

METTLER TOLEDO

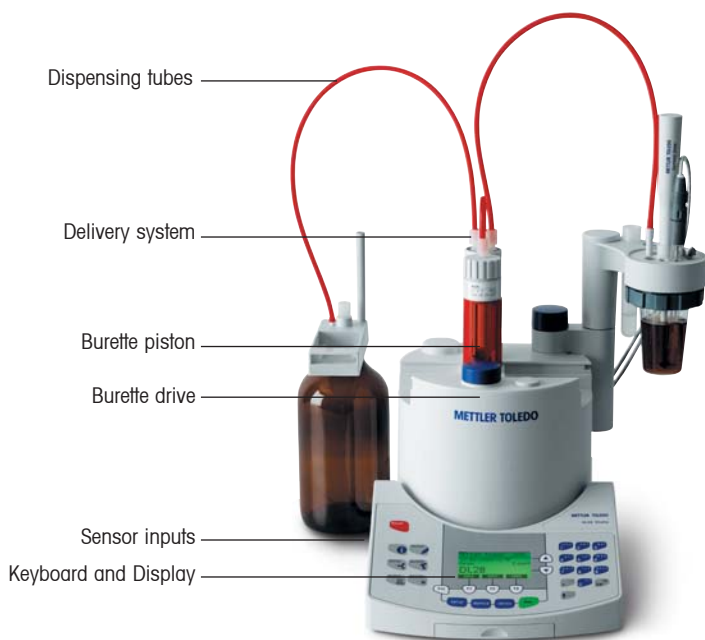
A Well Maintained Titrator to Guarantee Accurate Results

While your METTLER TOLEDO titrator is known for its accuracy and dependability, proper care is required to keep it performing at its peak potential. Depending on your application, critical components can become worn or decayed which may cause a negative impact on your results. Intermittent negative effects can lead to inconsistency in testing and wasted product. Long term neglect of critical components may lead to unit failure, unexpected downtime and costly repair. Scheduled Preventive Maintenance ensures the reliability of your titrator as shown in the picture below.



TotalCareXXL Comprehensive Maintenance

- Replacement of dispensing tubes
- Cleaning of delivery system
- Replacement of burette pistons
- Replacement of gaskets
- Testing, cleaning and lubrication of burette drive
- Testing and adjustment of sensor inputs
- Testing of keyboard and display functions
- Testing of printer function (if connected as a peripheral)
- External cleaning
- Check and replace battery if necessary
- Labor, parts, travel in case of breakdown
- Internal cleaning of PC boards and cables
- Test data reporting
- Priority service



Key Maintenance Activities

Checking/cleaning of delivery system including replacement of siphon

Replacement of burette pistons

Testing and adjustment of sensor inputs

Verification of burette drive stroke

Cleaning and lubrication of mechanical parts

Benefit

Prevents from clogs and air leaks, and ensures consistent dispensing of titrant

Prevents from leaking and dispensing inconsistently

Ensures manufacturer specification

Ensures correct volumes of titrant to be dispensed

Ensures manufacturer specifications



METTLER TOLEDO knows the most significant costs associated with a maintenance plan are often not considered. Some of the hidden costs are downtime, product nonconformance or measurement inaccuracies. With this in mind we have tailored service packages to best meet your needs. When selecting a service solution, the focus should be to minimize the total cost of ownership and increase the effectiveness of your manufacturing processes.

		Customer Requirements	Customer Benefits
TotalCareXXL	Full coverage	Maximized budget control Coverage of breakdowns Replacement of worn-out parts Documented calibration	No unbudgeted costs in case of breakdown Calibration certificate
Comprehensive Maintenance	Preventive Maintenance	Comply with tight budget Reliable and clean equipment Replacement of worn-out parts	Low-cost option Prevents equipment failure

Maintenance and Calibration Process



Initial testing/calibration
Stopcock, burette and electrode input are checked.



Cleaning and adjusting
The instrument is disassembled. PC-boards, burette, stopcock drives and gears are cleaned and adjusted.



Final testing/calibration
Electrode voltage is checked along with stirrer, burette, tubing and RS232 output.



Documentation
The titrator service is recorded on the appropriate documentation.

Equipment Calibration



CertiCase containing certified micrometer, glass burette, resistors and voltage simulator

While the reliability of METTLER TOLEDO titrators is ensured through periodic maintenance, its accuracy relies on calibrations, which are performed by manufacturer trained and certified technicians. METTLER TOLEDO recommends yearly calibration intervals with the following benefits:

- Documented evidence your titrator is working within manufacturer specification
- Calibration process performed in accordance with ISO 8655-6 reference material traceable to National Standards
- Compliance with ISO, GxP and HACCP requirements
- Known history of equipment performance
- All calibrations performed using METTLER TOLEDO proprietary CertiCase

Equipment Qualification



Qualification packs ensure professional installation and routine operation

METTLER TOLEDO qualification solutions for titrators take away the guess work when it comes down to ensuring quality and regulatory compliance. These professional solutions offer a myriad of benefits:

- No wasted time – a quick installation and qualification allows you to immediately start working with the titrator
- Increased productivity – users receive product familiarization to ensure productive processes
- Compliance – Limited risk of non-compliance during FDA audits and other quality management system assessments

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For more information

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